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EXL3) w/Anna  
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PATENT  
Attorney Docket 044921-5058-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Patricia Murphy et al.**

Application No. 09/084,471

Filed: May 22, 1998

For: **Novel Coding Sequences of the Human  
BRCA2 Gene**

Art Unit: 1655

Examiner: **Stephanie Zitomer, Ph.D.**

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AMENDMENT UNDER 37 C.F.R. 1.111

In response to the Office Action dated January 16, 2002 (Paper No. 22), the period for response to which has been extended to July 16, 2002 by the accompanying petition for a three-month extension of time, please amend the above-identified application as follows:

In the Claims:

Please amend claim 61 as follows:

61. An isolated nucleic acid molecule comprising a BRCA2 gene containing a nucleotide sequence variation selected from the group consisting of:

- E<sub>1</sub>
- (a) a thymidine at a position in exon 15 corresponding to nucleotide 171 of SEQ ID NO: 2; and
  - (b) a thymidine at a position in exon 15 corresponding to nucleotide 173 of SEQ ID NO: 2.

Please add new claims 87-94 as follows:

E<sub>2</sub>

--87. An isolated nucleic acid molecule according to claim 61, wherein the nucleotide sequence of the BRCA2 gene comprises a thymidine at a position corresponding to position 7834 of SEQ ID NO: 4.

88. An isolated nucleic acid molecule according to claim 61, wherein the nucleotide sequence of the BRCA2 gene comprises an exon 15 nucleotide sequence as set forth in SEQ ID NO: 2.

89. An isolated nucleic acid molecule according to claim 61, wherein the nucleotide sequence of the BRCA2 gene comprises an exon 16 nucleotide sequence as set forth in SEQ ID NO: 3.

90. The isolated nucleic acid molecule of claim 62, wherein the BRCA2 gene containing a nucleotide sequence variation is SEQ ID NO: 8.

91. The isolated nucleic acid molecule of claim 63, wherein the BRCA2 gene containing a nucleotide sequence variation is SEQ ID NO: 4.

92. The isolated nucleic acid molecule of claim 63, wherein the BRCA2 gene containing a

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01 FC:217  
02 FC:203

460.00 CH  
72.00 CH

CG  
nucleotide sequence variation is SEQ ID NO: 6.

93. The isolated nucleic acid molecule of claim 63, wherein the BRCA2 gene containing a nucleotide sequence variation is SEQ ID NO: 10.

94. The isolated nucleic acid molecule of claim 63, wherein the BRCA2 gene containing a nucleotide sequence variation is SEQ ID NO: 12.--

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